**1 What is the primary object in NumPy?**  
A. Series  
B. DataFrame  
C. ndarray  
D. matrix

Ans C

**2 Which method is used to generate a range of evenly spaced values in NumPy?**  
A. np.linspace()  
B. np.range()  
C. np.series()  
D. np.division()

Ans A

**3** **Which function returns the shape (dimensions) of a NumPy array?**  
A. np.dim()  
B. np.size()  
C. array.shape  
D. np.shape()

Ans C

**4 Which of the following can be used to create an identity matrix?**  
A. np.matrix()  
B. np.ones()  
C. np.identity()  
D. np.eye()

Ans D

**5** **What does broadcasting in NumPy allow?**  
A. Transmitting data  
B. Shape mismatch  
C. Performing arithmetic operations on arrays of different shapes  
D. Converting strings to arrays

6 **Which of these creates a 3×3 array with all elements equal to 5?**  
A. np.ones((3,3)) + 4  
B. np.full((3,3), 5)  
C. np.array([5]\*9).reshape(3,3)  
D. All of the above

Ans D

7 **What is the default data type in NumPy?**  
A. float64  
B. int  
C. float32  
D. string

Ans A

8 **Which of these returns a sorted array?**  
A. array.sort()  
B. np.sort(array)  
C. sorted(array)  
D. Both A and B

Ans B

9 **What will np.mean(np.array([1, 2, 3, 4])) return?**  
A. 2  
B. 2.5  
C. 3  
D. 4

Ans B

10 **Which NumPy function converts all elements to integers?**  
A. array.astype("int")  
B. array.toInt()  
C. int(array)  
D. array.convert(int)